Ecological Reference Worksheet

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Contact for lead author:	Don Ashby Ja			Reference site used? Y	Yes/No	No
Date: 5/26/2006 MI	LRA: 70	Ecological Site:	Limy CP-3	This <i>must</i> be verified	ed based on soils	
and climate (see Ecological Site Description). Current plant community <u>cannot</u> be used to identify the ecological site.						
	,	1	1	e, (1) use numbers, (2) incl	1	u l
range of values for above and b	_		munity within the	reference state, when appro	priate &	Indicator Weight
(3) site data. Continue descripti	ion on separat	e sheet.				ıtor ght
1. Number and extent of rills :	:					
May be present on the strongly slo	ning niedmont	slones associated with	n this site			
2. Presence of water flow patter		stopes associated with	ting site.			
May be present on the strongly slo			this site.			
3. Number and height of erosion	onal pedestals	or terracettes:				
None						
4. Bare ground from Ecologica	al Site Descrip	ion or other studies	(rock, litter, lichen	, moss, plant canopy are not	bare ground):	
					_	
Bare ground will be present up to			n 12 inches in diame	eter.		
5. Number of gullies and erosi	on associated v	vith gullies:				
If unprotected by vegetative cover	, these soils are	highly susceptible to	gullies and erosion a	associated with gullies.		
6. Extent of wind scoured, blo	wouts and/or d	epositional areas:				
C. 1111		1				
Soil blowing hazards can be mode 7. Amount of litter movement				ative cover.		
7. Amount of fitter movement	(describe size	and distance expecte	u to traver):			
Fine (plant material) litter moveme	ent 3-6 feet can	be expected with incr	reased bare ground a	nd surface coble/stone.		
8. Soil surface (top few mm) re			es are averages - mo	ost sites will show a range of	values for both	
plant canopy and interspace	es, if different)					
Anticipated to be 2-3 at the surface	e and subsurfac	e in the interspaces an	d 3-4 at the surface	and subsurfaces under vegetat	tion.	
9. Soil surface structures and S	SOM content (include type and stre	ength of structure,	and A-horizon color and thi	ckness for both pl	lant
canopy and interspaces, if d Soils are fine sandy loam to clay lo		in colon with the A h	omizon 1 2 inches in	donth Coile are well drained	moderately door r	rrith
moderate to moderately slow perm		iii coloi witii tile A ii	iorizon 1-2 menes m	depui. Sons are wen dramed,	moderatery deep v	NIUI
10. Effect of plant community c	composition (re	lative proportion of	different functiona	l groups) & spatial distribut	ion on infiltration	n &
runoff: Grasses and forbs account for 93%	of the ennual I	orbaggous production	for this site and mo	ke up 20, 200% of the site com	nosition Infiltration	on
		•		-	•	OII
is best with low intensity rainfall events. Runoff can be moderate during high intensity storms and accumulative rainfall events. 11. Prescence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction					n	
on this site):						
None						
12. Functional/Structural Grou	ıps (list in orde	r of descending dom	inance by above-gr	ound weight using symbols:	indicate much	
greater than (>>), greater	than (>), and	equal to (=) :				
Warm Season stolon grasses=Cool	l Season bunch	orasses>Warm Seaso	n hunch grasses>Shi	ubs(Winterfat Fourwing salt)	hush)	
13. Amount of plant mortality a						
Most of the perennial grasses, forb		~		nd to cause high mortality rate	es in the grass spec	cies
and some forbs. Shrub mortality can occur with severe, multiple year droughts. 14. Average percent litter cover (15-20 %) and depth (0.75 inches).						
Percent litter and depth will increa						
15. Expected annual production				orage production):		
400 lbs/ac in low precip years, 950 lbs/ac in average precip years, 1500 lbs/ac in above average years. Grass/grasslikes make up 85% of the					è	
total annual production. 16. Potential invasive (including povious) species (notive and non-notive). List species which characterize degraded states and which					ala .	
16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do, continue to increase regardless of the management of the site and may eventually						
dominate the site":					J	
African Rue has the potential to invade this site after mechanical soil disturbances. Juniper and Cholla species can also invade this site when					n	
extended periods of drought and or 17. Perennial plant reproductive		vestock.				
Weather related and natural diseas		educed reproductive o	capabilities. If tree/s	hrub components dominate th	ne site it can reduce	2
reproductive capabilities of the nat		_	•	•		

Photograph (s)

MLRA:	70	Date :
Ecological Site:	Limy CP-3	
Photo # 1		
Comments:		
Comments .		
Γ		
Photo # 2		
Comments:		

Functional / Structural Groups Worksheet

State	NM	Office	Carrizozo	Ecological Site	Limy CP-3	
Observers	Don A	Ashby Jr., Bob Mo	oorhead, Richard Spe	– ncer, Tim Henry, Ty C	Ca Date	5/26/06

Functional / Structural Groups			Species List for Functional / Structural Groups		
Name	Potential 1	Actual 2	Plant Names		
Warm Season stolon grasses	D		Black grama,		
Cool Season bunch grasses	D		NM Feathergrass, Needleandthread, Western Wheat		
Warm Season bunch grasses	D		Side Oats, Blue & Hairy grama, Bluestems, Dropseeds,		
Warm Season rhizome grasses	S		Galleta,		
Shrubs	M		Winterfat, Fourwing saltbush, Rabbitbrush, Broomsnake weed		
Biological Crust ³					

Indicate whether each "structural/functional group" is a Dominant (D)(roughly 40-100% composition), aSubdominant (S) (roughly 10-40%) composition) aMinor Component (M) (roughly 2-5% composition), or aTrace Component (T) (<2% composition) based on weight or cover composition in the area of interest (e.g., "Actual 2 column) relative to the "Potential 2 column derived from information found in the ecological site/description and/or at the ecological reference area.

Biological Crust 3 dominance is evaluated solely oncover not composition by weight